Mission Tools Suite (MTS)

HS3 Step-by-Step Instruction Guide – Year 2013 http://mts.nasa.gov/group/hs3/

Sign On

New Users: Request an Account

- 1. From your browser, link to MTS http://mts.nasa.gov but if you have an account it is better to go to http://mts.nasa.gov/group/hs3 for the HS3 configuration
- 2. Scroll down and click on Request an Account
- 3. Inside the email, mention you are part of the HS3 Mission

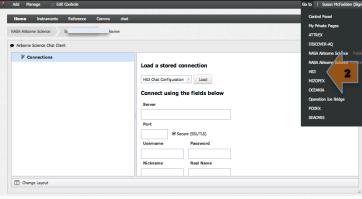
Link to the HS3 Workspace

- The HS3 Workspace includes various tools for communication such as message board, bookmarks, and documents for the HS3 site members to share information
 - 1. From your browser, link to the HS3 Configuration at
 - http://mts.nasa.gov/group/hs3/
 - 2. Type in your Username (email address) and Password
 - 3. Click Sign In

Alternatively, if you log in to your own workspace (without HS3 in the link), you can load the HS3 Workspace by:

- 1. Click on **GO to** in the upper right corner
- 2. Select *HS3* for the HS3 workspace





FYI: HS3 Workspace

The HS3 Workspace default is the Communication Tab. This is where you can quickly see any important announcements and scroll down to see latest postings on the Blog.

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FYI: HS3 Workspace

- > The Tabs in the HS3 Workspace include:
 - Communication
 - Wiki
 - Blog __
 - RSS
 - Bookmarks
 - ASP Mission Calendar
 - Message Boards
 - Dashboard
 - Monitor Map
 - Chat
 - Instruments
 - Documents
 - HS3 ESPO Link
 - o JPL HS3 Portal Link
 - Mission Science Reports Link

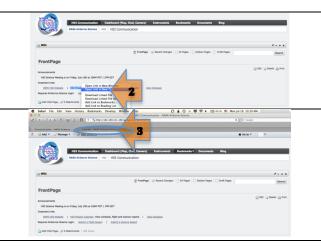


HS3 Communications Tab - Wiki

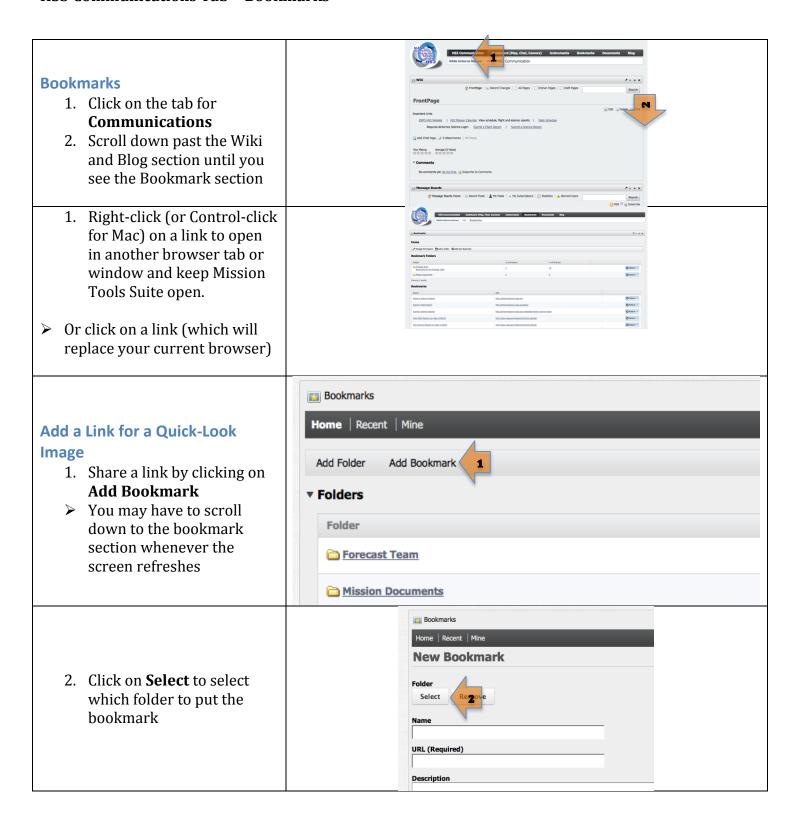
Find Important Info on Wiki

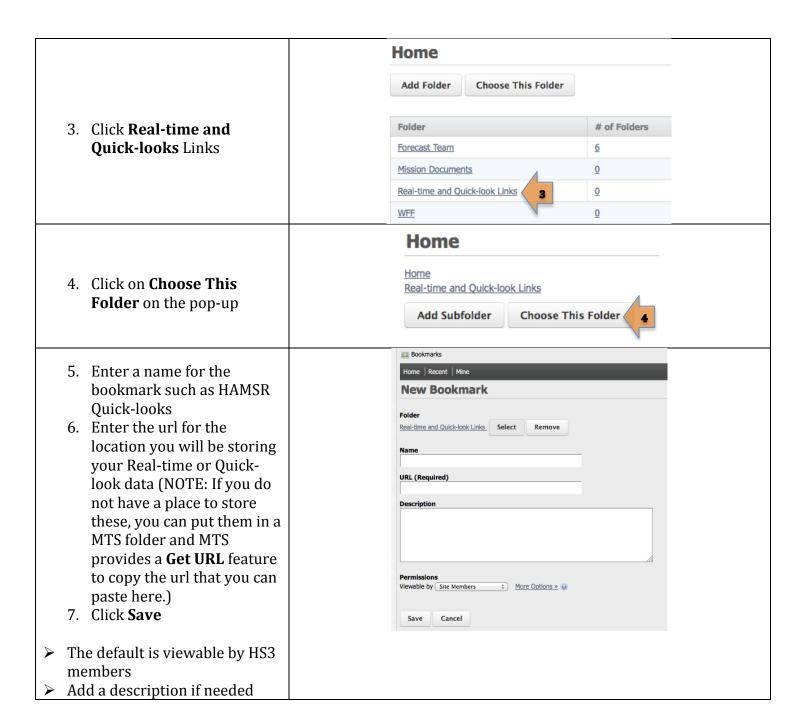
- ➤ The Communication Tab, is for sharing information like announcements and important links. When you launch the HS3 Workspace in MTS, you'll be able to read about the current status and get to important links such as the ESPO website, daily schedule and calendar.
 - 1. Right-click **HS3 Mission Calendar** (or Control-click for Mac)
- If you don't right-click, the default is to replace your MTS browser session.
 - 2. Select **Open Link in New Tab** (or open in New Window or whatever choice your browser provides)
 - 3. Click on the new Tab
- ➤ It is recommended to keep these two tabs/windows open so you can easily switch between MTS and the ESPO Calendar (for updated schedules and links to filed flight and science reports)





HS3 Communications Tab - Bookmarks

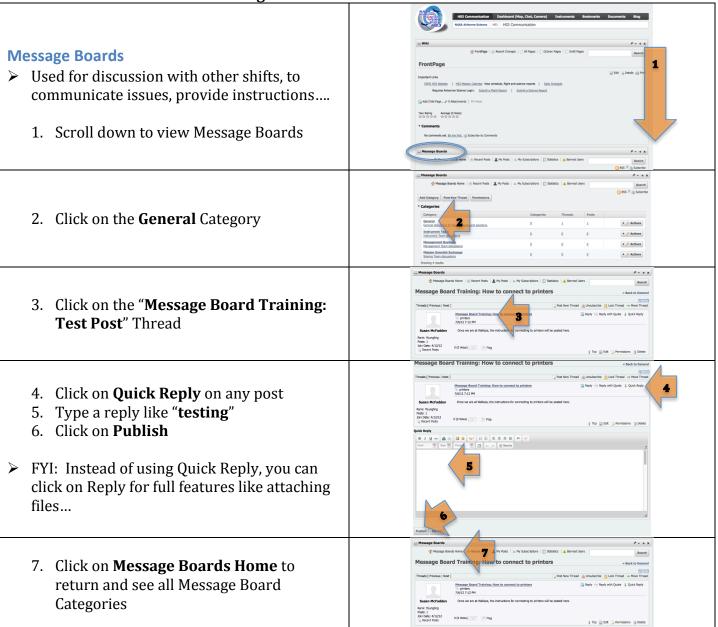




HS3 Communications Tab - Blog

Mission updates posted on Blog ➤ Blog entries are useful to share important information that may be lost in chats. For example updates on landings and runways 1 will be posted here. It is useful when starting your shift to check the blogs and chat history to get up to date on recent happenings. Blog entries may be reviewed by PAO (Public Affairs Office) and may be reposted on the NASA Hurricane Twitter or Facebook. 1. Scroll down in the Communications tab to the **Blog** (The Blog is after the Wiki.) Welcome to HS3 2. Click Add Blog Entry 3. Enter Title 4. Enter formatted content for lay person with capitalization and correct spelling 5. Click **Preview** as needed 6. Click **Publish** when ready to post

HS3 Communications Tab - Message Boards



Mission Dashboard Tab

Map 1. Click on the **Mission Dashboard** Tab All tabs are at the top of the page so you may have to scroll to the top ➤ If you get a message "A configuration has not yet been applied. Would you like to apply one now?" do apply the HS3 configuration. **Apply HS3 Config to the Monitor** The HS3 Default Configuration includes the Global Hawk and typical layers. 1. Click on the Gear Icon 2. Click the pull down and select **HS3 Default Configuration** 3. Click **Apply Configuration** 4. Click \mathbf{x} to close the window HS3 Default Configuration ATTREX Default Config Default Configuration Modify the existing configuration

NEW Base Layers: Change the Base Layer

- 1. Click on the pulldown for Map
- 2. Select Light (useful when viewing a lot of overlays)
- > Try the others to see what they look like

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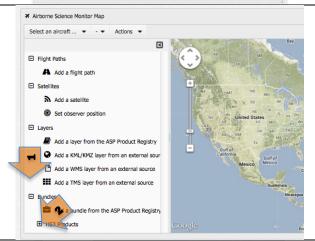
Show the Latest Flight Plan

- Click on the check box for the NASA872 Latest Flight Plan
- ➤ Flight plans will always be loaded to the same file location in MTS Documents to make it easy to view here in the map



View an Overlay

- ➤ Layers considered useful for HS3 are preloaded in the configuration so you only have to click on the checkbox to view.
 - 1. Scroll down to view items under Bundles
 - 2. Click on the plus sign by **HS3 Products** to expand the list



- 3. Click on the plus sign by **Satellite Products** to expand the list
- 4. Click on the plus sign for **GOES Standard Products**
- Click on the check box for the GOES Water Vapor
- Select an aircraft ... Actions

 III Add a TMS layer from an external source

 Bundles

 Add a bundle from the ASP Product Registry

 HS3 Products

 B Aircraft Operations & Planning

 D ASS Radar Products

 B Lightning Products

 GOES Standard Products

 GOES Water Vapor

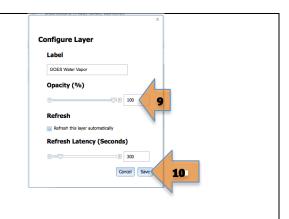
 GOES Visible 1km

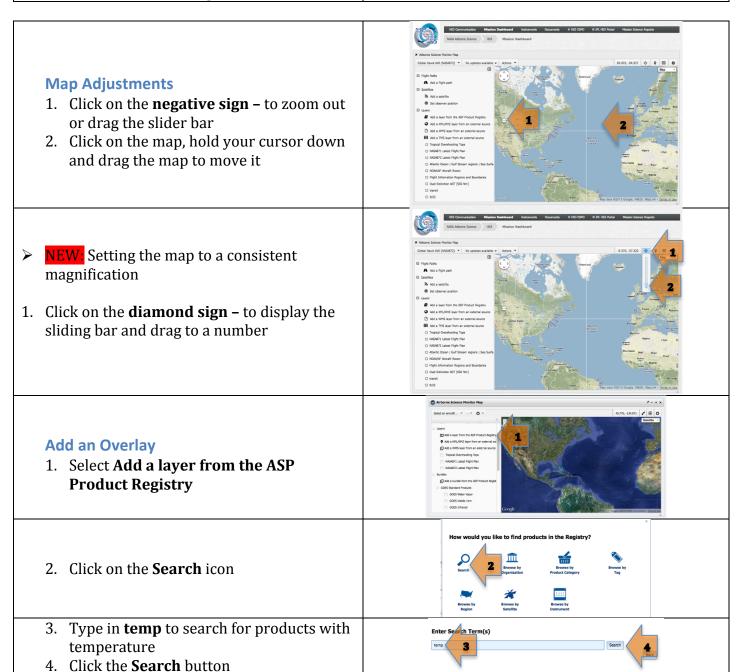
 GOES Infrared

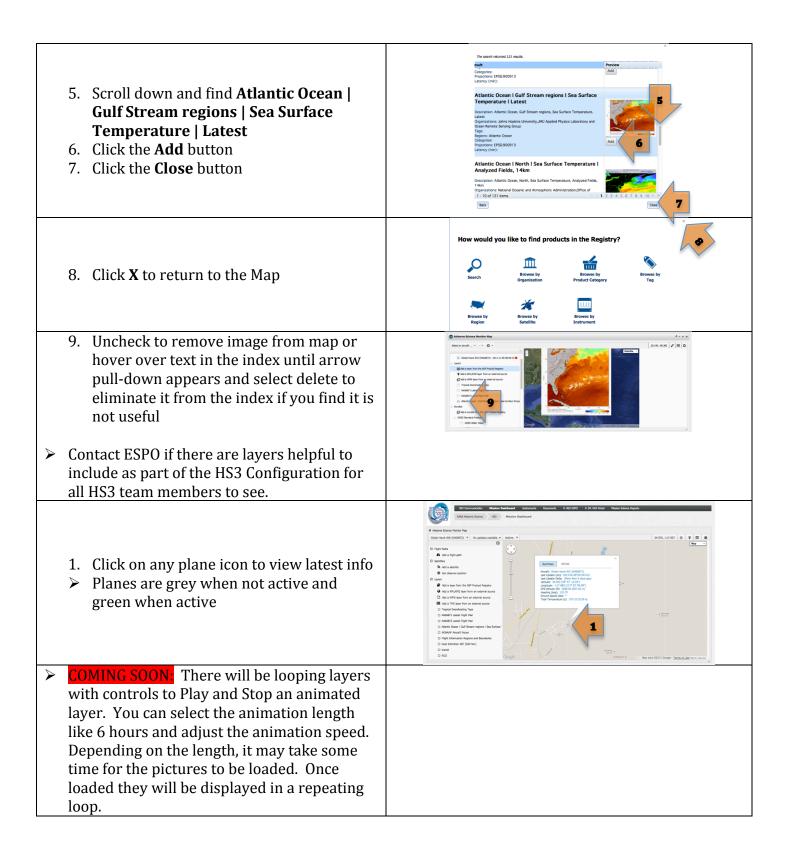
 RNL Satellite Products
- 6. Hover your cursor over **GOES Water Vapor** until a down arrow icon appears which will provide actions we can apply
- 7. Click on the down arrow
- 8. Select Configure



- 9. Either click on the Opacity line or enter 75 instead of 100
- 10. Click Save
- This will change the translucency to show the map below for perspective.
- ➤ If you do not see the down arrow, you may need to adjust the width of the windows. Put your cursor on the line between the windows until the resize icon appears and drag to make the index area larger.

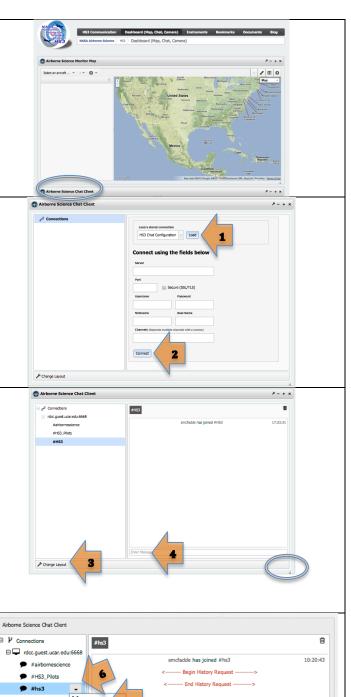


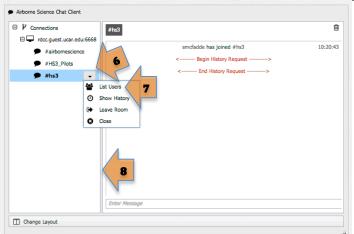


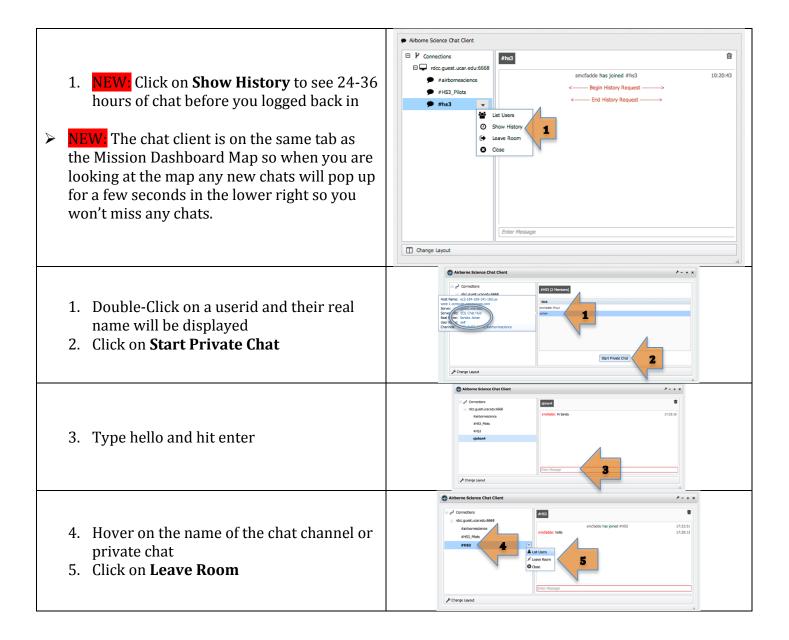


Chat

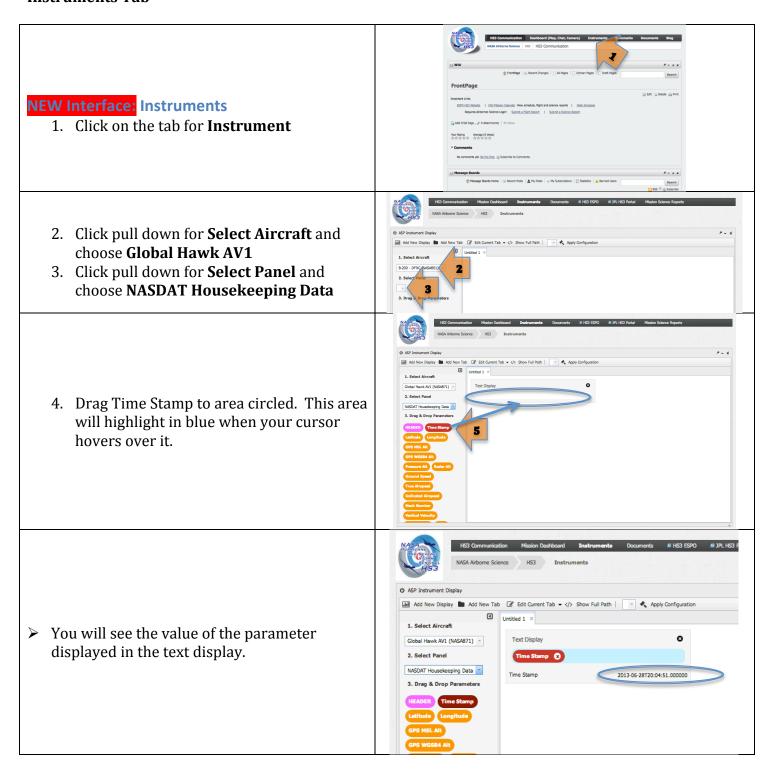
- Below the Map is the Chat Client for group and private chats
- NEW: When you log into MTS, you will be able to see chat history (24-36 hours) and catch up on what has been happening.
 - 1. Click on **Load** to prepopulate the fields with your default info
 - 2. Click on **Connect** to join the HS3 chat channel
 - 3. Click on **Change Layout** to cycle between the different views
 - 4. Type **hello** and hit enter
 - 5. Change the size of the Chat Window by clicking on the bottom right corner till the dragging icon appears and click and hold until to the size you want.
- You can resize many of the other tools like the Monitor by dragging the bottom right corner or by putting your cursor on the line between windows.
 - 6. Hover on the name of the chat channel
 - 7. Click on **List Users**
 - 8. If you do not see the down arrow, you may need to adjust the width of the windows. Put your cursor on the line between the windows until the resize icon appears and drag to make the index area larger.

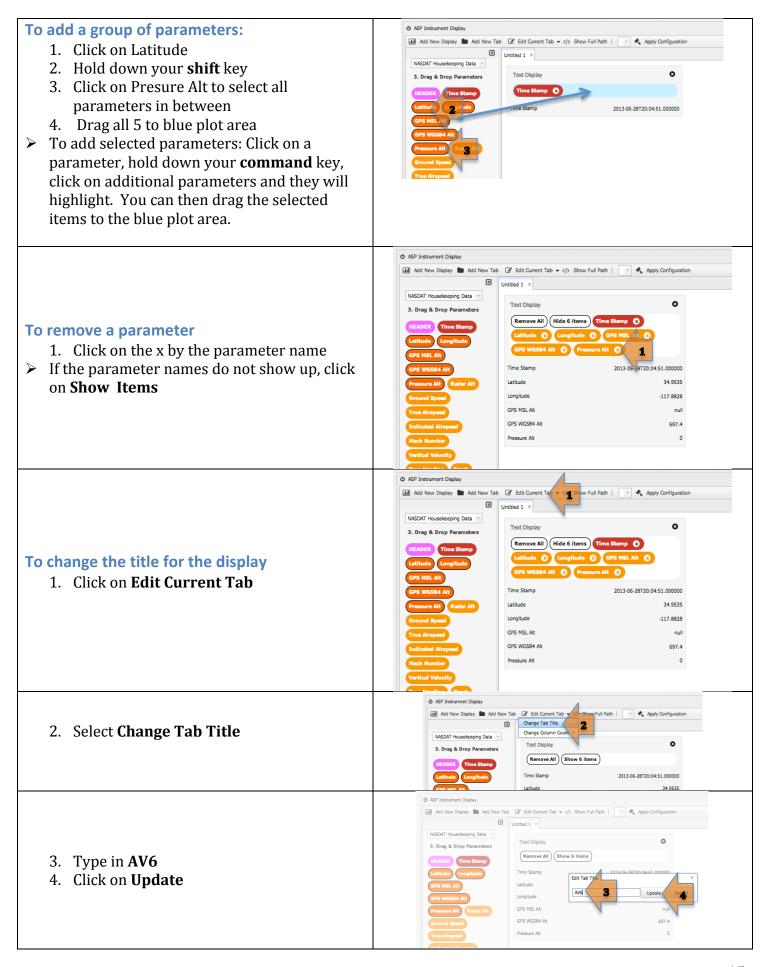


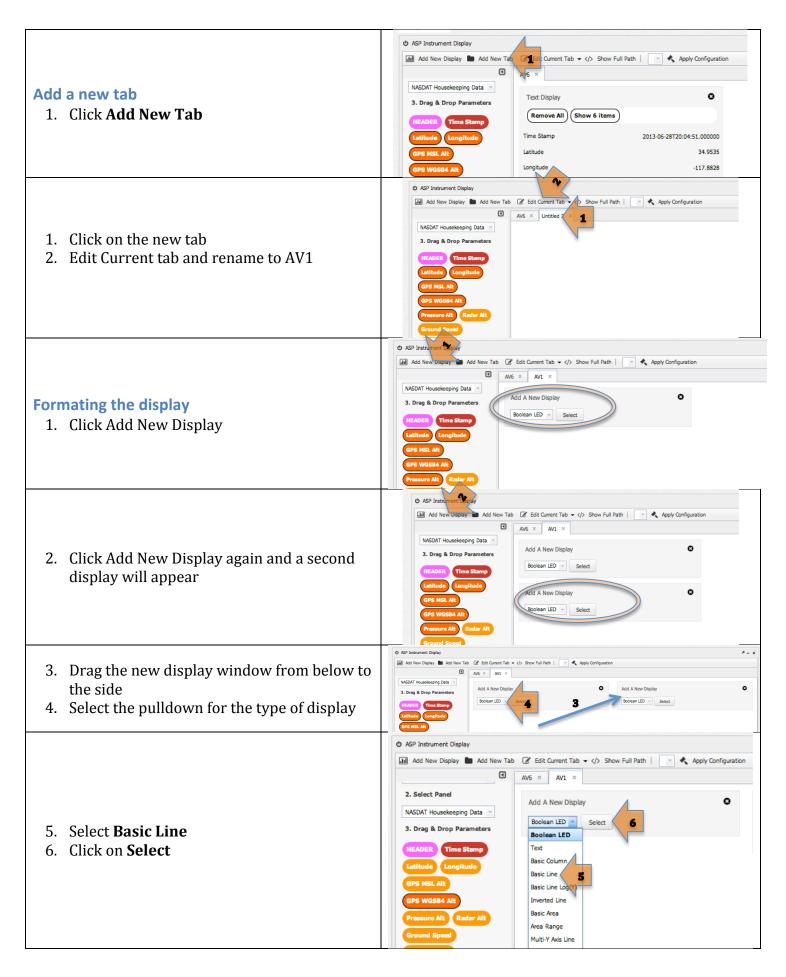


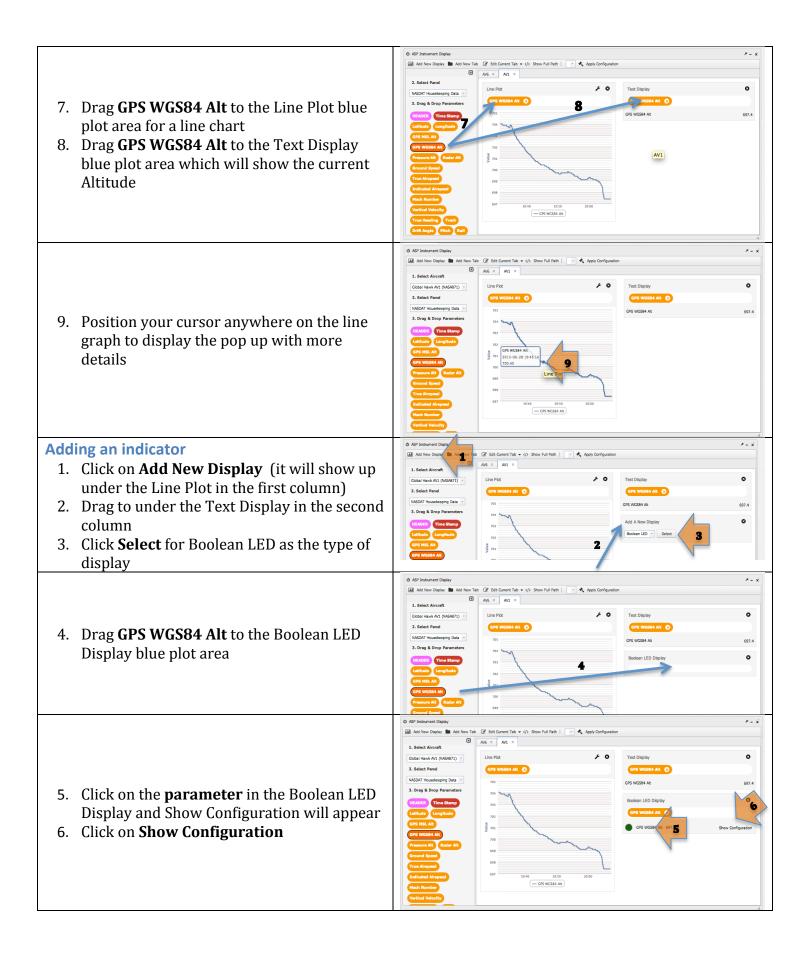


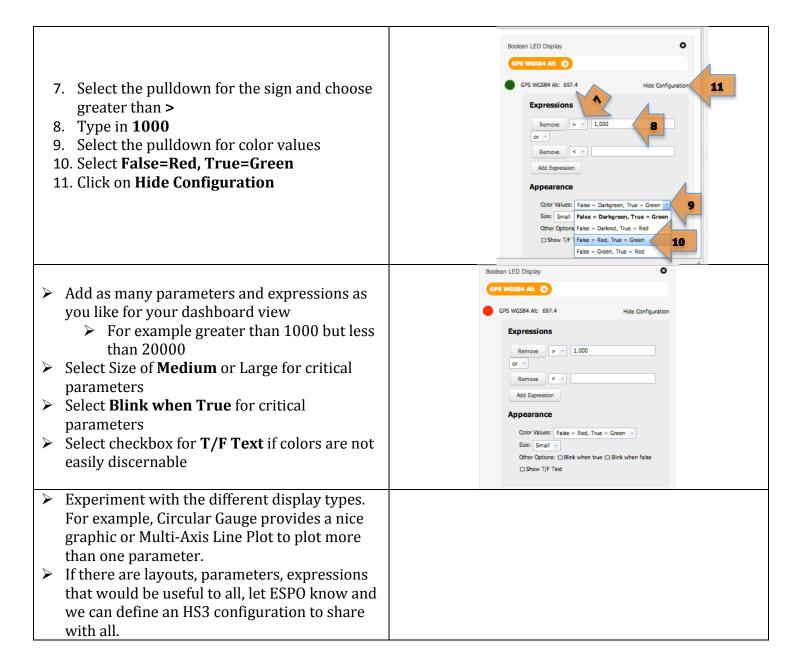
Instruments Tab

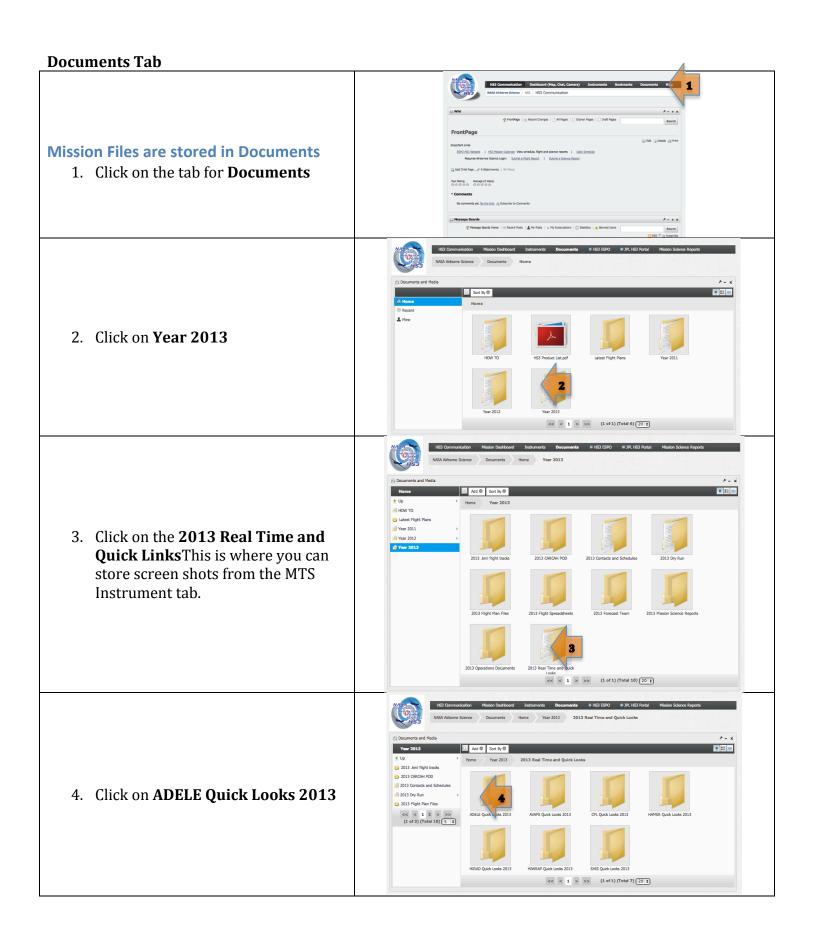


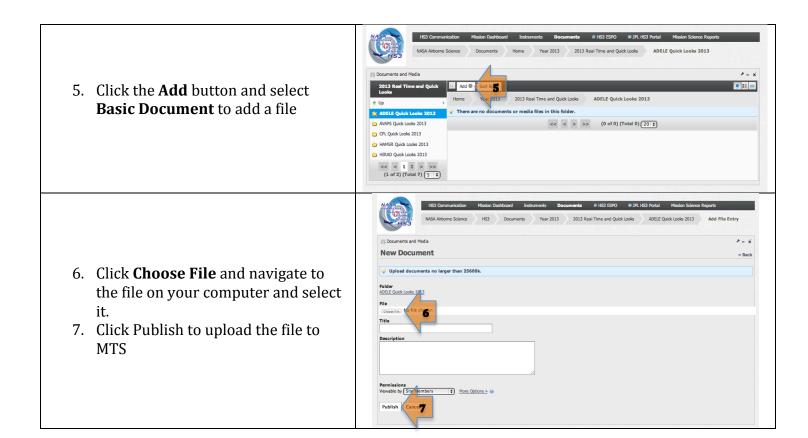












Additional Features:

Add an Aircraft

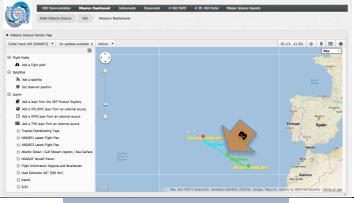
- This is useful to watch participating aircraft.
 For 2013 SEAC4RS planes (DC8 and ER2)
 will be participating and added to the HS3
 Configuration.
 - 1. From the Mission Dashboard tab, click on *Add a flight path*
 - 2. Click on Select an aircraft
 - 3. Select a plane such as **DC-8**
 - 4. Click on *Add Latest*

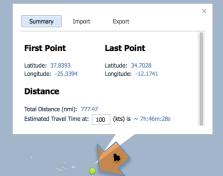


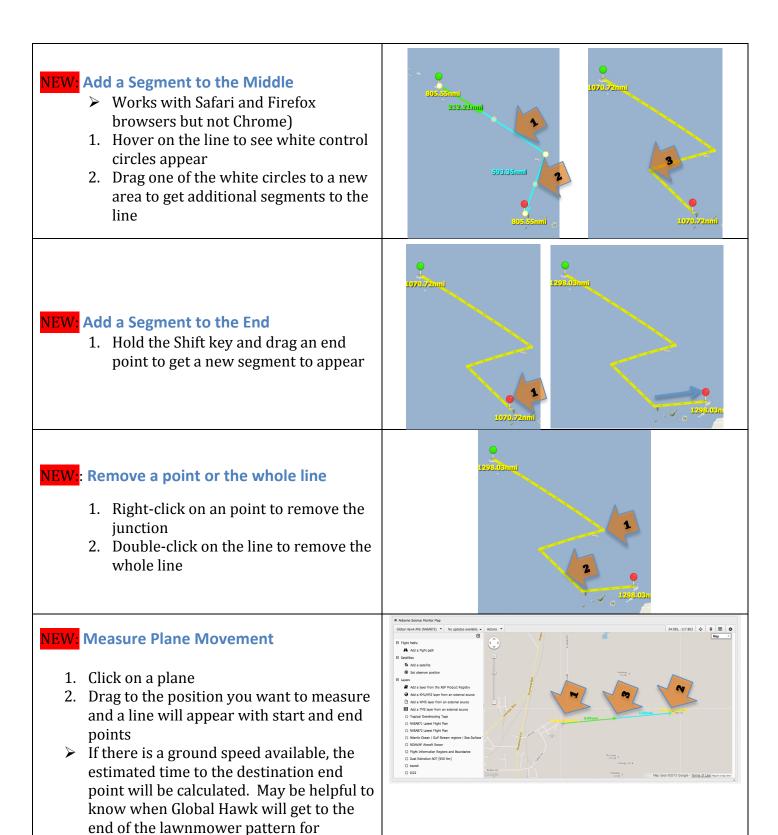
NEW Interface: Measure a Distance

- 1. Click on the Bubble Icon and a green dot for the start and a red dot for the end will appear on the map along with the distance in nautical miles and the current heading.
- 2. Click and drag a dot till the X is on the point you want
- 3. Click on a position between the dots and the distances to that point are displayed
- 4. Click on a dot to view more detail information on Latitude and Longitude
- 5. Enter speed in knots to get an estimate of the time needed to travel that segment
- ➤ There is a feature to import and export waypoints. Documentation on this feature will be posted on the MTS website soon.





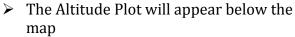




example.

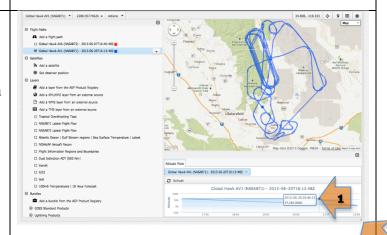
NEW: Show Altitude Plot

- Current Flight paths will appear in the Map for the planes of interest to HS3 (i.e. Global Hawk, ER2, DC8). In order to perform this step-by-step, you may need to add a flight path.
- 1. Click or hover on a flight path to view the pull down
- 2. Click on **Show Altitude Plot**



- 1. Click at a point in the Altitude Plot for detailed position and altitude information and you will also see a blue dot appear on the map that corresponds to where the plane was on the map
- 2. You may have to drag the window open by clicking and holding the lower right corner of the map window to view more detail info in the Altitude Plot
- Move your cursor along the Altitude Plot and watch the blue dot move along the flight path

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NEW: Show Track Length

- ➤ In order to isolate the most recent flight path from a lot of repeat tracks, you can limit the view to the last 60, 30, 15, 5 or 1 minute.
- 1. Click or hover on a flight path to view the pull down
- 2. Click on **Track Length**
- 3. Click on **60 minutes** and the displayed flight path will be reduced

4. Click on the blue dot to get perspective on the whole flight path.



